Abstract of the Disclosure

An apparatus and method for generating object-labeled images based on query images in a video sequence are provided. A video sequence is divided into a plurality of shots, each of which consists of a set
5 of frames having a similar scene, and an initial object region is extracted from each of the shots by determining whether an object image exists in key frames of the shots. Based on the initial object region extracted from each of the key frames, object regions are tracked in all frames of the shots. Then, the object regions are labeled to generate object-labeled images.
10 Therefore, the object-labeled image generating apparatus and method can be applied regardless of the degree of motion of an object and time required to extract query objects is reduced.